

## TADANO CARGO CRANE

MODEL : **TM-ZE365HS**

## CRANE SPECIFICATIONS

CRANE CAPACITY

3,000 kg at 2.3 m (4-part lines)

BOOM

Five-sectioned, fully powered partly synchronized telescoping boom of pentagonal box construction

Retracted length ----- 3.52 m

Extended length ----- 12.3 m

Extending speed ----- 8.78 m / 18 s

Elevation ----- Elevated by a double-acting hydraulic cylinder

Elevating speed ----- 1° to 78° / 7.5 s

Boom point ----- 2 sheaves

WINCH

Hydraulic motor driven Spur gear speed reduction, provided with mechanical brake and cable follower

Single line pull ----- 7.35 kN{750 kgf}

Single line speed ----- 76 m/min (at 4th layer)

Wire rope

Diameter x length --- 8 mm x 74 m

Breaking strength ---43.1 kN{4.39 tf}

Construction ----- 7 x 7 + 6 x WS(26)

Hook block ----- 2 sheaves

HOOK STOWING DEVICE

Mechanically stowed beneath boom top portion

Specifications are subject to change without notice.

SWING Hydraulic motor driven Worm gear speed reduction Continuous  
 360° full circle swing on ball bearing slew ring  
 Automatic swing lock  
 Swing speed ----- 2.5 min<sup>-1</sup>{rpm}

OUTRIGGERS Manually extended sliders and hydraulically extended jacks  
 Integral with crane frame Power up and down  
 Extension width ----- Min. 2,000 mm  
 Mid. 2,700 mm, 3,400mm  
 Full 4,200 mm

HYDRAULICS Hydraulic pump ----- Single gear pump  
 Hydraulic motors ----- Axial piston type for winch  
 Axial piston type for swing  
 Control valves ----- Multiple control valves with integral  
 safety valve  
 Oil tank capacity ----- approx. 31 L

SAFETY DEVICES AML(Automatic Moment Limiter)  
 Load indication  
 Load moment ratio to rated load indication  
 Warning alarm  
 Over load limiter  
 WHL(Working Height Limiter)  
 Load meter  
 Load indicator  
 Over-unwinding prevention  
 Terminal for emergency stop switch  
 Over-winding alarm  
 Hoisting limiter  
 P.T.O indicator lamp  
 Hook safety latch  
 Hydraulic safety valves, check valves and holding valves  
 Level gauge

CRANE MASS Approx. 1,485 kg (includes standardized mounting parts)

NOTE : Operating speeds of the crane are guaranteed under the condition that the pump  
 delivery is 60 L /min.

## RATED LIFTING CAPACITIES IN KILOGRAMS

### Crane Strength Rated Capacities

Load Radius	3.52 m / 5.75 m Boom		Load Radius	7.95 m Boom	Load Radius	10.1 m Boom	Load Radius	12.3 m Boom
	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full		Full
2.3 m and below	3,000	1,350	2.7 m and below	2,300	4.0 m and below	1,000	4.5 m and below	730
2.5 m	2,800	1,200	3.0 m	2,100	5.0 m	850	5.0 m	670
3.0 m	2,400	850	3.5 m	1,800	6.0 m	700	6.0 m	550
3.5 m	2,000	650	4.0 m	1,600	7.0 m	600	7.0 m	470
4.0 m	1,700	500	4.5 m	1,450	8.0 m	550	8.0 m	400
4.5 m	1,450	400	5.0 m	1,300	9.0 m	480	9.0 m	350
5.0 m	1,300	300	5.5 m	1,120	9.92m	450	10.0m	300
5.55m	1,120	250	6.0 m	1,020			11.0m	270
			6.5 m	920			12.1m	250
			7.0 m	820				
			7.75m	700				

- NOTES : 1. Capacities in above tables include slings and similarly used load handling devices, and they must be added to the mass of the load. They don't, however, include the mass of hook block (30kg)
2. The above numerical values of total rated loads are based on crane strength only. The total rated loads based on stability may lower than those in the above table depending on the loading conditions and the types of the chassis.

Table A Empty Chassis Rated Capacities

Load Radius	3.52 m / 5.75 m Boom		Load Radius	7.95 m Boom	Load Radius	10.1 m Boom	Load Radius	12.3 m Boom
	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full		Full
2.3 m and below	3,000	1,250	2.7 m and below	2,200	4.0 m and below	1,000	4.5 m and below	730
2.5 m	2,750	1,150	3.0 m	2,000	5.0 m	800	5.0 m	600
3.0 m	2,250	750	3.5 m	1,650	6.0 m	700	6.0 m	450
3.5 m	1,850	600	4.0 m	1,350	7.0 m	520	7.0 m	370
4.0 m	1,400	450	4.5 m	1,150	8.0 m	420	8.0 m	320
4.5 m	1,150	350	5.0 m	950	9.0 m	350	9.0 m	280
5.0 m	950	300	5.5 m	800	9.92m	300	10.0m	250
5.55m	820	250	6.0 m	700			11.0m	220
			6.5 m	600			12.1m	200
			7.0 m	520				
			7.75m	450				

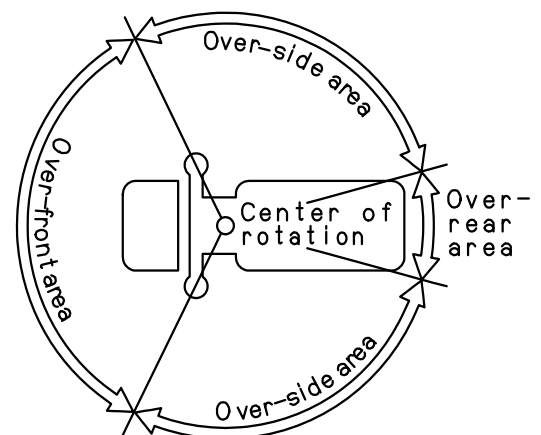
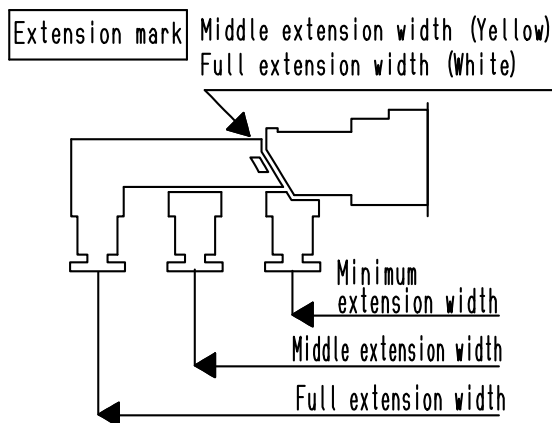
Table C

Load Radius	3.52 m / 5.75 m Boom		Load Radius	7.95 m Boom	Load Radius	10.1 m Boom	Load Radius	12.3 m Boom
	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full		Full
2.3 m and below	3,000	1,350	2.7 m and below	2,200	4.0 m and below	1,000	4.5 m and below	730
2.5 m	2,750	1,200	3.0 m	2,000	5.0 m	800	5.0 m	600
3.0 m	2,250	850	3.5 m	1,650	6.0 m	700	6.0 m	450
3.5 m	1,900	650	4.0 m	1,350	7.0 m	600	7.0 m	370
4.0 m	1,600	500	4.5 m	1,150	8.0 m	470	8.0 m	320
4.5 m	1,300	400	5.0 m	1,020	9.0 m	400	9.0 m	280
5.0 m	1,050	300	5.5 m	900	9.92m	350	10.0m	250
5.55m	900	250	6.0 m	770			11.0m	220
			6.5 m	670			12.1m	220
			7.0 m	600				
			7.75m	520				

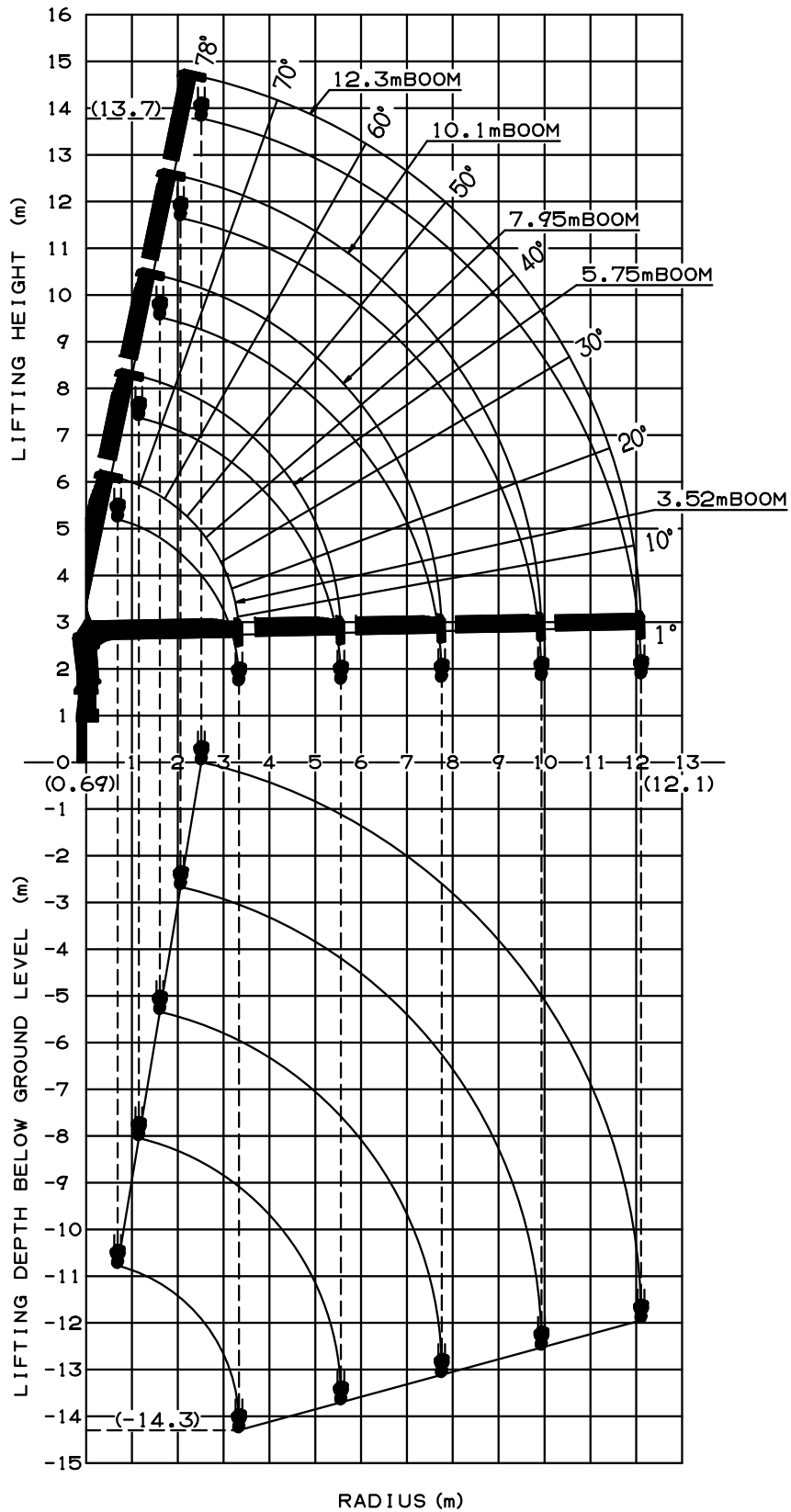
Table D

Load Radius	3.52 m / 5.75 m Boom		Load Radius	7.95 m Boom	Load Radius	10.1 m Boom	Load Radius	12.3 m Boom
	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full		Full
2.3 m and below	3,000	1,350	2.7 m and below	2,300	4.0 m and below	1,000	4.5 m and below	730
2.5 m	2,800	1,200	3.0 m	2,100	5.0 m	850	5.0 m	670
3.0 m	2,400	850	3.5 m	1,800	6.0 m	700	6.0 m	550
3.5 m	2,000	650	4.0 m	1,600	7.0 m	600	7.0 m	470
4.0 m	1,700	500	4.5 m	1,450	8.0 m	550	8.0 m	400
4.5 m	1,450	400	5.0 m	1,300	9.0 m	480	9.0 m	350
5.0 m	1,300	300	5.5 m	1,120	9.92m	450	10.0m	300
5.55m	1,120	250	6.0 m	1,020			11.0m	270
			6.5 m	920			12.1m	250
			7.0 m	820				
			7.75m	700				

- NOTES :
1. Empty Chassis Rated Capacities in these tables depend on condition that crane is set level on firm level ground.
  2. Capacities in these tables include slings and similarly used load handling devices, and they must be added to the mass of the load. They don't, however, include the mass of hook block (30kg).
  3. For boom lengths not shown, use the rated lifting capacity of next longer boom.
  4. When outriggers are extended to middle extension width, use the rated lifting capacities for outriggers are extended to minimum extension width .
  5. For boom lengths longer than 5.75m, extend outriggers to full extension width.
  6. When the boom length is 10.1 m, a half of the  $\square$  mark on lateral face of the 4th boom section is exposed out of the 3rd boom section.
  7. Empty Chassis Rated Capacities table A ,C and D depend on the types of chassis.
  8. Empty Chassis Rated Capacities are shown for over-side areas and over-rear area. These capacities for over-front area may lowered depending on the types of chassis.



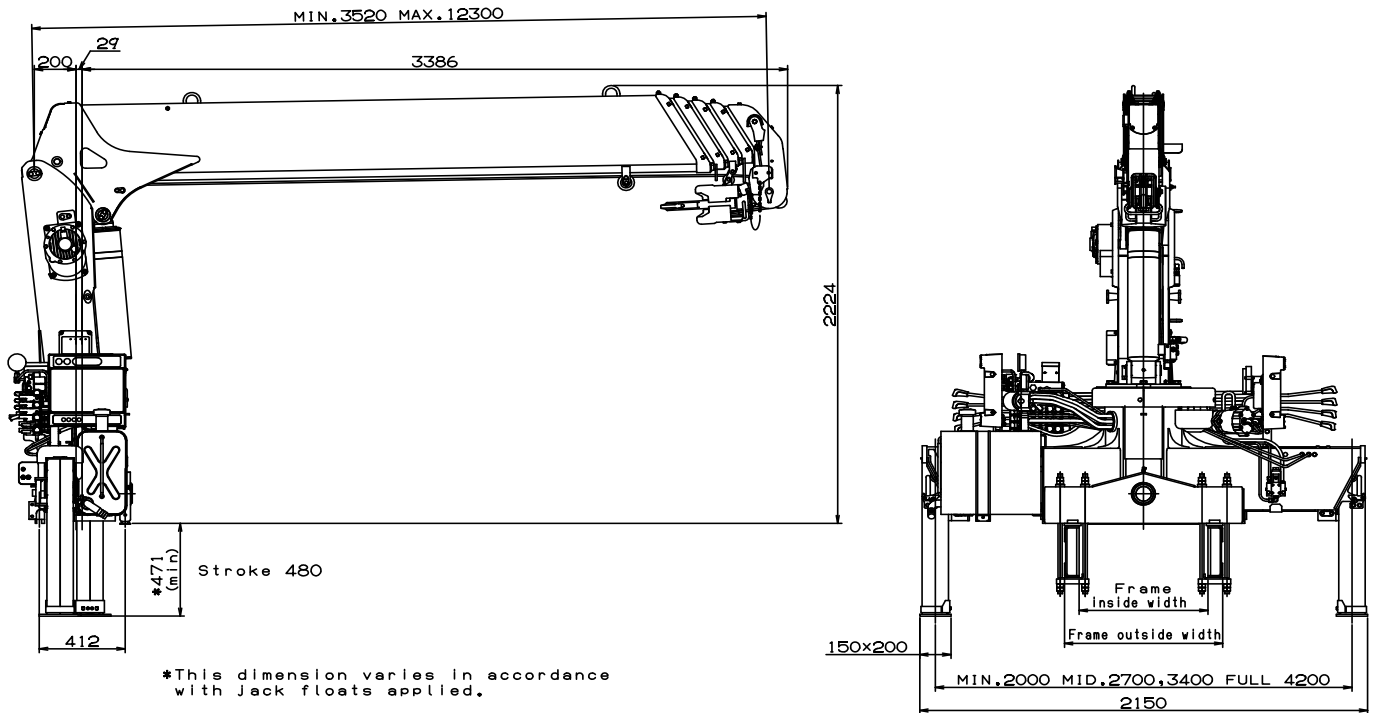
### WORKING RANGE



**NOTE:**

The above lifting heights and boom angles are based on a straight (unladen) boom, and allowance should be made for boom deflection obtained under laden conditions.

## DIMENSIONS



## GENERAL DATA FOR SUITABLE TRUCKS

- Gross vehicle mass (including crane mass) ----- 8,000 to 15,000 kg
- P.T.O. torque ----- 190 N-m{19.4 kgf-m} min.
- P.T.O. revolution ----- Approx. 300 to 1,900 min<sup>-1</sup>{rpm}
- Width for crane mounting ----- Approx. 640 mm min.
- Frame ----- Weight distribution and frame strength should be calculated for each truck
- Frame width range (inside to outside) ----- Approx. 610 to 860 mm
- Frame height (ground to frame top) ----- Approx. 1,070 mm max.  
(Height of crane mounting base can be changed by combination of jack floats and crane bases)